IPCP BATCH INTERFACE TO CICS

Number: 243
Issued Date: 11 Oct 1996
Effective Date: 03 Nov 1996
Section/Groups: CICS/Database
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Most agencies currently use IPCP to manipulate their CICS allocated resources from a batch environment. The CICS group has encountered a need to reorganize the IPCP interface to the State's CICS regions. This change will allow us more flexibility to meet your online processing needs in the future and yet allow your batch jobs to continue running by sharing resources that are allocated to one of the CICS regions. These changes should be minor. However, for some agencies, they could be a little time consuming.

These IPCP changes are precipitated by the implementation of SYSPLEX and CICSPLEX to provide more application stability and improve both availability and performance for your online CICS systems. Our first step toward this goal is to create Data Owning Regions for sharing the data between CICS regions. With that accomplished, we can then start to implement Dynamic Transaction Routing to protect your application from a CICS region outage and improve availability. We will also implement Terminal Owning regions from which Dynamic Transaction Routing will take place.

These IPCP reconfiguration changes will be effective on October 27, 1996 6:00 AM for CICS regions running on CPU4 and on November 3, 1996 6:00 AM for the production regions on CPUs 2 and 3. These will be cutoff dates for the old way and start dates for the new way. **The two configurations will not work together**, since the IPCP command dataset allocated to the CICS regions will be changed. Note that the CICSs on CPUs 5, 6 and 7 will not change. The CICS regions on these CPUs are already set up using the new configuration.

We currently have five IPCP Command Datasets that are used between your batch job streams and the CICS regions. They are:

DP.IPCP4.COMMAND.DATASET2 (for CICS regions residing on CPU2)
DP.IPCP4.COMMAND.DATASET3 (for CICS regions residing on CPU3)
DP.IPCP4.COMMAND.DATASET4 (for CICS regions residing on CPU4)
DP.IPCP4.COMMAND.DATASET.ED (for Office of Education development CICS)
DP.IPCP4.COMMAND.DATASET.EP (for Office of Education production CICS)

As you will notice, the Office of Education CICS regions have their own command datasets. This is our intent for each of the State's CICS regions. Instead of one command dataset for each CPU, we will be allocating one dataset for each CICS region in the development and production environments. This is because each region in our production environment is essentially a stand-alone region as far as resource ownership is concerned. For CPU4, there will be one command dataset for each logical group of regions (e.g., the CICST environment will have one dataset for CICST, CICST1, CICST2, CICST3, and CICSDVD1, the data owning region). The Maintenance environment will also have one dataset for its MRO configuration. There will be no changes in the Office of Education environments running on CPUs 5 and 6.

The new command datasets will be as follows:

For CPU2 regions:

DP.IPCP4.COMMAND.DATASET.CJ	(for CICSCJ and CICSCR)
DP.IPCP4.COMMAND.DATASET.GG	(for CICSGG)

For CPU3 regions:

DP.IPCP4.COMMAND.DATASET.PA	(for CICSPA)
DP.IPCP4.COMMAND.DATASET.RS	(for CICSRS)
DP.IPCP4.COMMAND.DATASET.OV	(for CICSOV)
DP.IPCP4.COMMAND.DATASET.HS	(for CICSHS and CICSHA)

For CPU4 regions:

DP.IPCP4.COMMAND.DATASET.DV	(for CICST, CICST1, CICST2 and CICST3)
DP.IPCP4.COMMAND.DATASET.AT	(for CICSAT)
DP.IPCP4.COMMAND.DATASET.IT	(for CICSIT)
DP.IPCP4.COMMAND.DATASET.TR	(for CICSTR)
DP.IPCP4.COMMAND.DATASET.MT	(for CICSM and CICSM1)

For CPU5 regions (Richfield machine):

DP.IPCP4.COMMAND.DATASET.EP	(for CICSEP, no change)

For CPU6 regions (Richfield machine):

DP.IPCP4.COMMAND.DATASET.ED	(for CICSED, no change)

For CPU7 regions (Year 2000 testing machine):

DP.IPCP4.COMMAND.DATASET.A2	(for CICS2A - acceptance testing)
DP.IPCP4.COMMAND.DATASET.D2	(for CICS2D - development)

To start using the new command datasets you will need to make some changes to your existing JCL that calls IPCP.

Your choices for these changes are as follows:

1. You may change your JCL to point directly to the new command dataset by changing the IPCPCDS DD card in your JCL.
2. You may change your JCL to use a new PROC that is set up for flexibility between CICS regions. This flexibility is accomplished via a PROC symbolic override that allows you to use the same JCL for any CICS region and just change the RGN override parameter. (The PROC and its use and overrides will be documented later in this document.) **Note:** This is the recommended method of implementation.
3) If you are currently using the existing PROC (IPCP) you will need to change over to the new IPCPBTCH PROC. This is due to the changes in override requirements. After November 3, this

PROC will no longer work for you. See new PROC documentation below.

With the change in IPCP Command Dataset structure, there are also some changes in the control card requirements. You will no longer need to have the control card pointing IPCP to a specific CICS region. This has already been accomplished by using the region-specific Command Dataset. We ask that when you convert over to using the new IPCP environment you **eliminate the "CICS CC ONLY=" control cards** that are currently in your input control cards. If you are using IPCP in an MRO environment that has more than one CICS region in it (e.g., CICST, CICST1, CICST2, and CICST3), the region names are supplied in the command dataset and are therefore not needed in the control card input. Leaving the CICS CC control card in your input will force you to know exactly where in the MRO system your resources reside and will necessitate changes on your part every time we make a change to resource allocations to facilitate dynamic transaction routing.

For the initial changeover period the **"CICS CC ONLY="** control cards will still work, assuming that the control card points to the same region that the command dataset is pointing to. This will allow you to spread out the time it will take to make the required changes to your JCL. ***This is only a short term option***, however, and we ask that you continue the task of eliminating the controls cards from your parameter input.

IPCPBTCH PROC PROCEDURES

As mentioned above, the use of the IPCPBTCH PROC is the recommended method of implementing these changes. We recommend this method because you will not be using hard-coded version numbers in your JCL that will require future JCL updates as new versions of IPCP are installed. For example, the current load library is: DP.IPCP4.LODLIB. As IPCP is updated in the future, this name may change to a version 5 instead of 4.

There are only two requirements for use of the IPCPBTCH PROC. The first is the region qualifier (RGN) for the command dataset and the second is an override for the SYSIN dataset containing your control cards. Below are some JCL samples for how to implement the new procedure. I have not included job cards or any other steps for the job, just the IPCP step.

1) Using in stream control cards via DD *

```
//STEP1   EXEC IPCPBTCH,RGN=qq        (Where qq = two character region qualifier)
//EXECIPCP.IPCPCNTL DD *
CLOS DB ddname
CLOS DB ddname
/*
//
```

2) Using a PDS containing various control card members

```
//STEP1 EXEC IPCPBTCH,RGN=qq    (Where qq=two character region qualifier)
//EXECIPCP.IPCPCNTL DD DISP=SHR,DSN=your.parmlib.pds(membrnam)
```

As mentioned above, we will be making some CICS configuration changes in the form of Terminal Owning Regions (TORs) and Data Owning Regions (DORs) in the near future. You will receive further

technical bulletins when these changes take place. The changes to the IPCP configuration will allow us the flexibility to start making these other changes without further impact to your IPCP JCL.

If you have any questions or concerns about this change and/or how it will affect you, please call the CICS group (538-3179).